

Product datasheet for RC211682

UTF1 (NM_003577) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UTF1 (NM_003577) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UTF1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC211682 representing NM_003577
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGCTCCGGCCCCGAGGCCGCCCGCTCGCGCCCCCGCGCCCTCGCCCGCCAGCCCCGACC
CCGAGCCCGGACACCCGGAGACGCCCGGGGACCCCGCCCGGAGGCCCGCTCGCCAGCGCGTGGG
GGAAGTCCGGTTGCCGGTGTCCCGGGCTCGGCGCAGCGCACGCCCTGGAGCGCCCGGAGACGGAGCTG
CTGCTGGGGACGCTGCTGCAACCGGCCGTGTGGCGCGCGTCTCCTGGACCGCCGCCAGGCCCTGCCA
CCTACCGCCGCTGTCCGGCCGCTGGCCAGCAGCAGGTGCGCCGACCCCGCGCAGTGCCGCCGCCG
CTACAAGTTCCTTAAAGACAAGTTTCGCGAGGCGCACGGCCAGCCGCCCGGGCCCTTCGACGAGCAGATC
CGGAAGCTCATGGGGTGTGGGCGACAACGGGCGCAAACGGCCTCGCCGCCGCTCCCGGGGTCCGGGC
GCCCCAGCGCGCCGCCCGGTCCCAACGCGCACGCGCGGCTCCAGCGAACCAGACGCCACCCC
GCTGCCACCGCCGCGACCGCGACGGACCCACCTGGACGCTCCGTTAGCCCGTCCCAACGAAG
TCTGCGGACGCCCTCCCGCCCCCGCTCCCGCCAGTCCCGCCCGACCGCCCTGCCACCTGCATCC
CCGAGGACCGCGCCCGTCCCGGGCCCCGGTCCCGCCGCCACCCCGGCCGGAAGACCCCGACTC
GCCGCCCGGCCCGCCCGAGGACTGCGCGCCCCCTCCGGCCGCGCCCGTCCGCTGAACACCGCCCTGCTG
CAGACCTGGGGACCTGGGCGACATCGCGAACATCCTGGGCCCGCTGCGCGACCAAGCTGCTGACCTTGA
ACCAGCACGTGGAGCAGCTGCGCGGCGCCTTCGACCAGACAGTGTCCCTGGCCGTGGGCTTCATTCTGGG
CAGCGCGGCCCGGAGCGAGGGTCTCAGGGACCCGTGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211682 representing NM_003577
 Red=Cloning site Green=Tags(s)

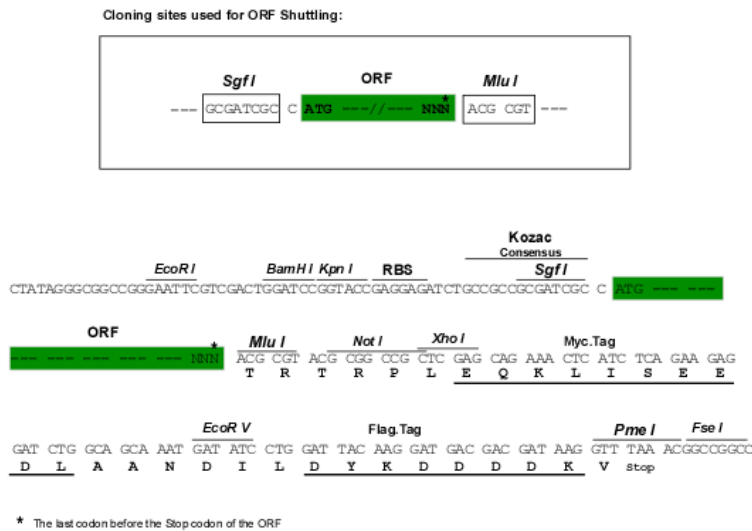
MLLRPRRPPPLAPPAPPSPASPDPEPRTPGDAPGTPPRRPASPSALGELGLPVSPGSAQRTPWSA
 RETEL LLGTLLQPAVWRALLDRRQALPTYRRVSAALAQQVRRTPAQCRRRYKFLKDKF
 REAHGQPPGPFDEQIRKLMGLLDNGRKRPRRRSPGSRPQRARRPVNAHAPAPSEP
 DATPLPTARDRDADPTWTLRFSPSPPK SADASPAGSPPAPAPTALATCIPEDRAPV
 RGPSPPPPPAREDPDPSPPGRPEDCAPPAAAPPSLNTALL QTLGHLGDIANILG
 PLRDQLLTLNQHVQLRGAFDQTVSLAVGFILGSAAAERGVLRDPCQ

TRTRP**LE**QKLISEEDLAANDILDYKDDDDK**V**

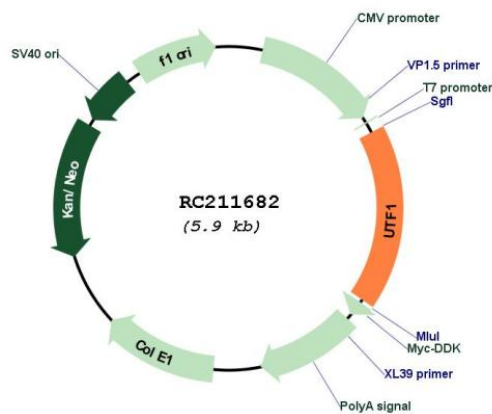
Chromatograms: https://cdn.origene.com/chromatograms/mg2477_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



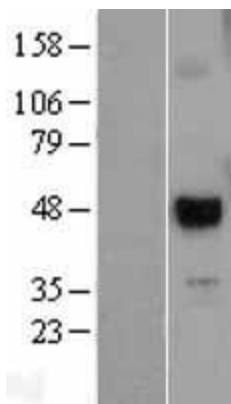
Plasmid Map:



ACCN:	NM_003577
ORF Size:	1023 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_003577.3
RefSeq Size:	1157 bp
RefSeq ORF:	1026 bp
Locus ID:	8433
UniProt ID:	Q5T230
Cytogenetics:	10q26.3
Protein Families:	Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
MW:	36.3 kDa

Gene Summary:

The protein encoded by this gene is a leucine zipper-containing transcriptional coactivator that may link the upstream activator ATF2 with the basal transcription complex. The encoded protein is closely associated with chromatin and is required for the proper differentiation of embryonic carcinoma and embryonic stem cells. Found nearly exclusively in pluripotent cells, this protein can also serve as a transcriptional repressor. [provided by RefSeq, Nov 2015]

Product images:

Western blot validation of overexpression lysate (Cat# [LY401188]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211682 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).